

Preparation method of memantine hydrochloride

Patent number: CN1400205
Publication date: 2003-03-05
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Classification:
- **international:** A61P25/28; C07C209/00; C07C211/38; A61P25/00; C07C209/00; C07C211/00; (IPC1-7): C07C211/38; A61P25/28; C07C209/00
- **European:**
Application number: CN20020134628 20020830
Priority number(s): CN20020134628 20020830

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Abstract of CN1400205

The preparation method of medicine for curing dementia, N-methyl-D-aspartic acid (NMDA) receptor antagonist memantine hydrochloride includes the following steps: using polybasic alcohol as solvent; making 1-bromo-3,5-dimethyl adamantane and urea according to the mole ratio of 1:0.25-10 react for 0.5-48 hr. at 20-200 deg.C; after the reaction is completed, adding sodium hydroxide into the reaction solution according to that the mole ratio of 1-bromo-3,5-dimethyl adamantane and sodium hydroxide is 1:0.1-10, making alcoholysis at 50-200 deg.C, chloroform extraction, concentration, acidification with hydrochloric acid and salt-forming so as to obtain the invented memantine hydrochloride. It features safe and simple operation and low cost, etc.

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